

TowerCom Unipole

CVS Redevelopment and Cell Site Replacement

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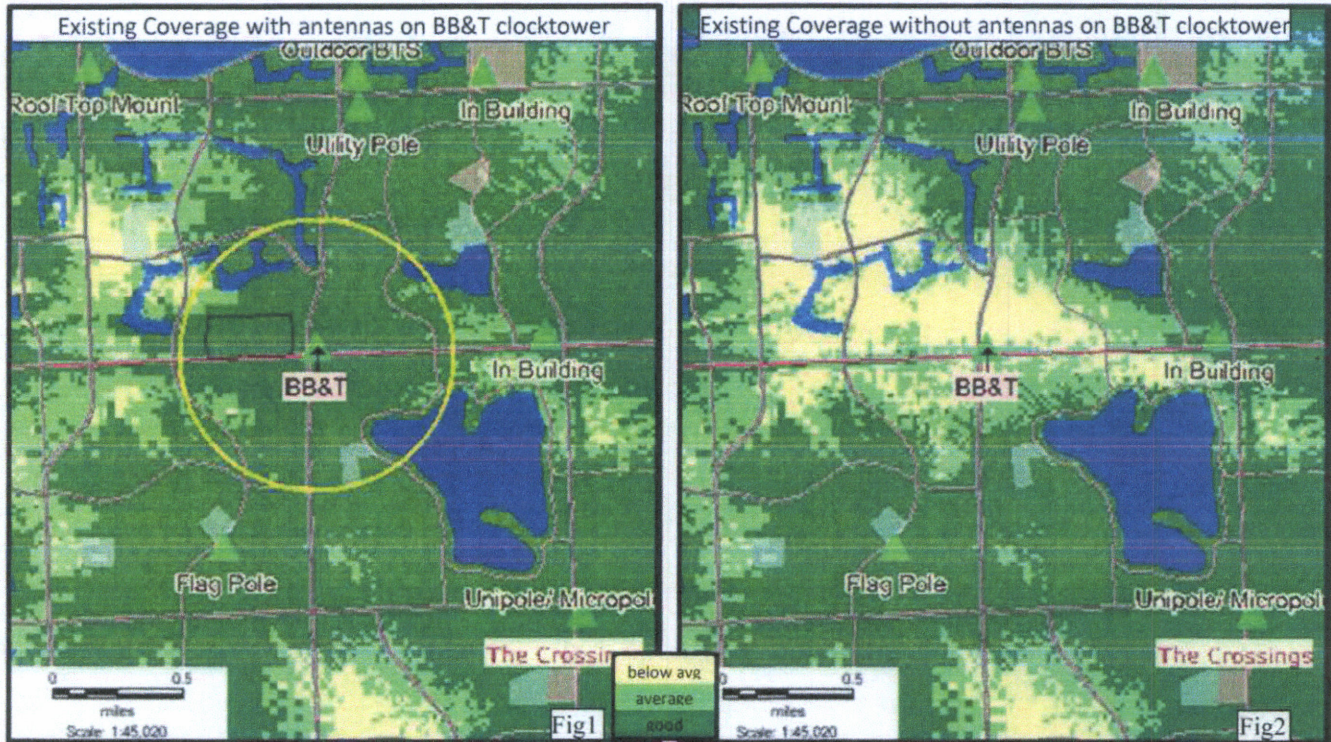
MAR 31 2016

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND
ECONOMIC RESOURCES
DEVELOPMENT SERVICES

Last Updated: 03/24/16

Department: T-Mobile Engineering & Operations – Miami Market

Current Cell Site Coverage and Potential Coverage Gap



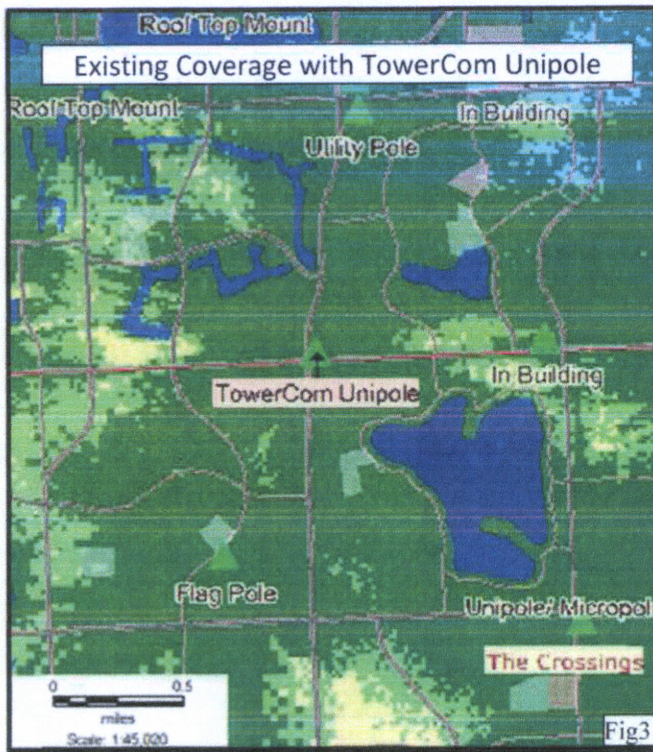
The T-Mobile cell phone facility located on a clocktower at the CVS building at 8701 SW 137 Ave in Miami, Florida provides a coverage radius of approximately seven tenths of a mile in the area centered near the intersection of N Kendall Dr and SW 137th Ave. (Figure 1) The site has undergone a number of upgrades within the last few years to improve and expand the service footprint. In order to maintain the current network service levels the antennas are proposed to be relocated to a new nearby unipole tower prior to the demolition of the building. Failure to relocate the antennas to a new structure will cause significant degradation to the network performance. In particular there would be a coverage gap from approximately SW 142nd Ave in the west to SW 132nd Ave in the east and from SW 96th St in the south to SW 79th St in the north. (Figure 2) This coverage gap would be due primarily to the reduction in signal strength as the next closest serving tower is greater than three quarters of a mile distant. Users in this area of reduced signal levels would experience more dropped calls, an increase in ineffective attempts to access the network and slower throughput speeds for data applications. This is especially true in indoor locations or during network busy hours. In the worst case scenario a user may not be able to place an E911 call.

Site_ID	Site_Lat	Site_Long	Site_Name	Site_Class_Desc	Address	City	Distance to BB&T (mi.)
6MD1270D	25.67078	-80.39964	(009) FPL Calusa Pole	Unipole/ Micropole	10435 SW 127th Ave	Miami	1.5
6MD1320E	25.67455	-80.42176	(001) Kings Meadow Plaza	Flag Pole	9901 SW 142nd Ave	Kendale Lakes-Lindgr	0.88
6MD1324C	25.70164	-80.42997	(12) The Sovereigns/Md7	Roof Top Mount	6841 SW 147th Ave	Kendale Lakes-Lindgr	1.43
6MD1703M	25.69937	-80.41323	FPL LINDGREN CORRIDOR	Utility Pole	13541 SW 72ND Street	Miami	0.94

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Cell Site Coverage with Proposed Unipole



A new tower located on the same parcel as the existing facility would provide adequate overlap with the nearby cell sites. This would maintain the existing coverage footprint and actually improve service levels due to a modest increase in antenna height and configuration. SDE

Name	TowerCom Unipole
T-Mobile SITE-ID	6MD2203A
Latitude	25° 41' 11.241"
Longitude	-80° 24' 58.3236"
Site elevation (ft)	6.56

Antenna Configuration

Site Name	TowerCom Unipole	Antenna centerline	Antenna type	Max effective radiated output power (80W radio)	Antenna manufacturer	Azimuth	Beam tilt
T-Mobile Site	6MD2203A	95	HBXX-3319DS-VTM 1710-2170 MHz 33° horizontal beamwidth 20dBi gain	EIRP (W) = 4009.50 EIRP (dBW) = 36.03	Andrew Commscope	0° / 120° / 240°	3° nominal electrical tilt 0° mechanical tilt
		85				60° / 180° / 300°	

Link Budget

	Technology	Radio	Output Watts	dBm	Line loss (-3dB)	Antenna Gain (+20.6dBi)	EIRP (W)	EIRP (dBW)
DOWNLINK	2G/3G/4G	FXFC	80	49.03	46.03	66.03	4009.50	36.03
UPLINK	2G/3G/4G	Mobile	0.13	21.14	0	20.00	0.10	

Sprint



6700 N. Andrews Ave, Suite 700
Ft Lauderdale FL 33309 SDE

March 17, 2016

Mr. John Moody
TowerCom, LLC
4031 NE 15 Avenue
Oakland Park, FL 33334

Letter of Intent: Sprint colocation at 8701 SW 137 Ave, Miami, FL 33183

Mr. Moody,

This letter is being provided to confirm that Sprint is interested in collocating on the proposed TowerCom tower site to be located at 8701 SW 137 Ave, Miami, FL 33183.

Sprint currently operates a cell site facility at this location on a structure that is being re-developed. Relocation to the new proposed structure will allow for Sprint to maintain coverage and uninterrupted service.

Sprint RF is requesting an antenna rad center of 80' in order to provide continuous cell site coverage and increased capacity in the surrounding area.

A colocation application has been submitted for this proposed site.

Thank you,

Jason Laskey
Real Estate Manager/Program Manager III
Miami/West Palm Beach Market
305-321-5655

6700 N. Andrews Ave, Suite 700, Fort Lauderdale, FL 33309